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CREATE TABLE Chemical
(CONSTRAINT ch_ch_pk PRIMARY KEY ( cas_no, chemical ) USING INDEX TABLESPACE
OEMEIDX
                                         STORAGE ( INITIAL 16K NEXT 4K )
                                         PCTFREE 10,
CHEMID          VARCHAR2(5),
CHEMICAL        VARCHAR2(60) CONSTRAINT ch_ch_nn NOT NULL,
CAS_NO          VARCHAR2(11) CONSTRAINT ch_cn_nn NOT NULL,
RTECS           VARCHAR2(30),
UNNO            VARCHAR2(4),
HAZLAB          VARCHAR2(30),
NFPA_H          VARCHAR2(1),
NFPA_F          VARCHAR2(1),
NFPA_R          VARCHAR2(1),
NFPA_S          VARCHAR2(18),
YN_EHS          VARCHAR2(1),
YN_313          VARCHAR2(1),
YN_CERCLA      VARCHAR2(1),
RQ              NUMBER(5),
TPQ             VARCHAR2(10),
RCRA            VARCHAR2(4),
AMB_STATE       VARCHAR2(1),
LOC             NUMBER(10,8),
CHEM_FLAG       VARCHAR2(1) CONSTRAINT ch_cf_vl CHECK (CHEM_FLAG IN
('X','P') ),
YRLY_MAX        NUMBER(10,2)
)
TABLESPACE OEMEDAT STORAGE ( INITIAL 800K NEXT 16K );

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CREATE TABLE ChemInv
(CONSTRAINT ci_bc_pk PRIMARY KEY ( bar_code ) USING INDEX TABLESPACE
OEMEIDX
                                         STORAGE ( INITIAL 16K NEXT 4K )
                                         PCTFREE 10,
BAR_CODE         VARCHAR2(5) CONSTRAINT ci_bc_nn NOT NULL,
INV_DATE        DATE      CONSTRAINT ci_id_nn NOT NULL,
ROOM_NO          VARCHAR2(4) CONSTRAINT ci_rn_fk REFERENCES
Location(room_no),
CUSTODIAN       NUMBER(5),
CAS_NO           VARCHAR2(11),
CHEMICAL         VARCHAR2(60) CONSTRAINT ci_ch_nn NOT NULL,
CHEM_FLAG        VARCHAR2(1) CONSTRAINT ci_cf_vl CHECK (Chem_Flag IN ('X','P')
),
WEIGHT           NUMBER(7,2),
VOLUME           NUMBER(6,1),
DATE_RCD         DATE,
EXP_DATE         DATE,
DISPOSITION      VARCHAR2(1) CONSTRAINT ci_di_vl CHECK (Disposition IN

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('S','D','I','E','U') ),
DISPOSITION_DATE DATE,
STATE      VARCHAR2(1) CONSTRAINT ci_st_vl CHECK (State IN ('S','L','G') ),
MFG_NO      NUMBER      CONSTRAINT ci_mn_fk REFERENCES
Manufacturer(mfg_no),
COMMENTS    VARCHAR2(60),
ADD_DATE    DATE,
ADD_USER    CHAR(8),
CHG_DATE    DATE,
CHG_USER    CHAR(8)
LOT_NUMBER  VARCHAR2(15),
PRODUCT_NUMBER  VARCHAR2(15)
)
TABLESPACE OEMEDAT STORAGE ( INITIAL 256K NEXT 16K );

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CREATE TABLE Location
(CONSTRAINT lo_bc_pk PRIMARY KEY ( room_no ) USING INDEX TABLESPACE
OEMEIDX
                           STORAGE ( INITIAL 4K NEXT 4K )
                           PCTFREE 10,
ROOM_NO      VARCHAR2(4),
BUILDING     VARCHAR2(4)
)
TABLESPACE OEMEDAT STORAGE ( INITIAL 4K NEXT 4K );

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CREATE TABLE Manufacturer
(CONSTRAINT mf_mn_pk PRIMARY KEY ( mfg_no ) USING INDEX TABLESPACE
OEMEIDX
                           STORAGE ( INITIAL 4K NEXT 4K )
                           PCTFREE 10,
MFG_NO      NUMBER,
MANUFACTURER  VARCHAR2(30)
)
TABLESPACE OEMEDAT STORAGE ( INITIAL 4K NEXT 4K );

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drop SEQUENCE OEME.emfg;
CREATE SEQUENCE OEME.emfg INCREMENT BY 1 START WITH 108;

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CREATE TABLE TRI_CHEM2004
(CONSTRAINT TRI_Ch_pk PRIMARY KEY ( cas_no, tri_primary_name ) USING INDEX
TABLESPACE OEMEIDX
                           STORAGE ( INITIAL 16K NEXT 4K )
                           PCTFREE 10,
CAS_NO      VARCHAR2(11),
TRI_PRIMARY_NAME  VARCHAR2(200),
TRI_SECONDARY_NAME VARCHAR2(100)
)

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TABLESPACE OEMEDAT STORAGE ( INITIAL 256K NEXT 16K );

```
CREATE OR REPLACE TRIGGER ChemInv_Add
BEFORE
INSERT
ON ChemInv
FOR EACH ROW
BEGIN
  IF ( :NEW.add_date IS NULL ) THEN
    :NEW.add_date := SYSDATE;
  END IF;
  IF ( :NEW.add_user IS NULL ) THEN
    :NEW.add_user := R1USER;
  END IF;
END;
/
```

```
CREATE OR REPLACE TRIGGER ChemInv_Chg
BEFORE
UPDATE
ON ChemInv
FOR EACH ROW
BEGIN
  IF ( USER <> 'OEME' ) THEN
    :NEW.chg_date := SYSDATE;
    :NEW.chg_user := R1USER;
  END IF;
END;
/
```

GRANT INSERT ON cheminv	TO chem_user;
GRANT UPDATE ON cheminv	TO chem_user;
GRANT DELETE ON cheminv	TO chem_user;
GRANT SELECT ON cheminv	TO PUBLIC;
GRANT SELECT ON cheminv_hist	TO PUBLIC;
GRANT INSERT ON manufacturer	TO chem_user;
GRANT UPDATE ON manufacturer	TO chem_user;
GRANT DELETE ON manufacturer	TO chem_user;
GRANT SELECT ON manufacturer	TO PUBLIC;
GRANT SELECT ON emfg	TO chem_user;
GRANT SELECT ON location	TO PUBLIC;
GRANT INSERT ON chemical	TO chem_user;

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GRANT UPDATE ON chemical          TO chem_user;
GRANT DELETE ON chemical         TO chem_user;
GRANT SELECT ON chemical         TO PUBLIC;

ALTER TABLE ChemInv_Hist
ADD CONSTRAINT ch_bc_pk PRIMARY KEY ( bar_code ) USING INDEX TABLESPACE
OEMEIDX;
```